

Amendments to the Claims

Please amend the claims as follows:

1. (original) Method for processing of a three-dimensional image data set, wherein
 - (a) the three-dimensional image data set is converted to at least two different data representations for image reproduction;
 - (b) the at least two different data representations are reproduced;
 - (c) one image section that is shown in one of the data representations is markable;
 - (d) for the at least one other data representation the relative position of the marked image section is calculated; and
 - (e) the relative position of the marked image section is shown in the at least one other data representation;

wherein at least one data representation is a sectional view and at least one data representation is a three-dimensional view;

wherein the at least one sectional view comprises an axial view and/or a frontal view and/or a sagittal view and/or an oblique view;

wherein the at least one three-dimensional view comprises a wall view and/or an intraluminal view;

wherein the three-dimensional image data set of a hose-shaped body is processed; and

wherein at least one of the data representations is a wall view with a line of sight that is parallel and/or anti-parallel to the curvature vector at the maximum curvature of the mid-line of the hose-shaped body.

2. (canceled)
3. (canceled)
4. (previously presented) Method according to claim 1, wherein at least one of the data representations is a topogram view.
5. (previously presented) Method according to claim 1, wherein the at least one other data representation is changed so that the image section marked in the one data representation is also shown in the at least one other data representation.
6. (previously presented) Method according to claim 1, wherein the shown image section is marked manually and/or by means of a structure and/or texture recognizing method.
7. (canceled)
8. (previously presented) Method according to claim 1 for use in virtual endoscopy, in particular, virtual coloscopy.
9. (currently amended) A computer-readable medium storing a program product to be read by or to be implemented in a computer respectively and that is adapted having instructions that, when

executed by a computer, cause the computer to perform the steps (a) and (d) of the method according to claim 1.

10. (previously presented) An image processing and reproducing system for performing a method according to claim 1, comprising
- at least one device for image reproduction of a three-dimensional image data set by at least two different data representations;
- a device for marking one image section that is shown in one of the data representations;
- a device for calculation of the relative position of the image section marked in the one data representation for the at least one other data representation.

11. (currently amended) An image processing and reproducing system for performing a method according to claim 1, comprising
- at least one device for image reproduction of a three-dimensional image data set by at least two different data representations;
- a device for marking one image section that is shown in one of the data representations; and
- a device for calculation of the relative position of the image section marked in the one data representation for the at least one other data representation;

including a computer program product to be read by or to be implemented in a computer
respectively and that is adapted to perform the steps (a) and (d) ~~of the method according to claim~~
4.

12. (previously presented) Method according to claim 2, wherein at least one of the data
representations is a topogram view.

13. (previously presented) Method according to claim 3, wherein at least one of the data
representations is a topogram view.

14. (previously presented) Method according to claim 2, wherein

the three-dimensional image data set of a hose-shaped body is processed; and

at least one of the data representations is a wall view with a line of sight that is parallel and/or
anti-parallel to the curvature vector at the maximum curvature of the mid-line of the hose-shaped
body.

15. (previously presented) Method according to claim 3, wherein

the three-dimensional image data set of a hose-shaped body is processed; and

at least one of the data representations is a wall view with a line of sight that is parallel and/or
anti-parallel to the curvature vector at the maximum curvature of the mid-line of the hose-shaped
body.

16. (previously presented) Method according to claim 4, wherein

the three-dimensional image data set of a hose-shaped body is processed; and

at least one of the data representations is a wall view with a line of sight that is parallel and/or anti-parallel to the curvature vector at the maximum curvature of the mid-line of the hose-shaped body.

17. (previously presented) Method according to claim 5, wherein

the three-dimensional image data set of a hose-shaped body is processed; and

at least one of the data representations is a wall view with a line of sight that is parallel and/or anti-parallel to the curvature vector at the maximum curvature of the mid-line of the hose-shaped body.

18. (previously presented) An image processing and reproducing system for performing a method according to claim 2, comprising

at least one device for image reproduction of a three-dimensional image data set by at least two different data representations;

a device for marking one image section that is shown in one of the data representations;

a device for calculation of the relative position of the image section marked in the one data representation for the at least one other data representation.

19. (previously presented) An image processing and reproducing system for performing a method according to claim 3, comprising

at least one device for image reproduction of a three-dimensional image data set by at least two different data representations;

a device for marking one image section that is shown in one of the data representations;

a device for calculation of the relative position of the image section marked in the one data representation for the at least one other data representation.

20. (previously presented) An image processing and reproducing system for performing a method according to claim 7, comprising

at least one device for image reproduction of a three-dimensional image data set by at least two different data representations;

a device for marking one image section that is shown in one of the data representations;

a device for calculation of the relative position of the image section marked in the one data representation for the at least one other data representation.